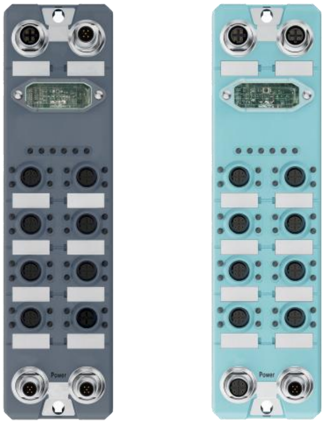
# IM-WS080WGM

## 8 UTP 10/100/1000Mbps Managed Waterproof M12 Switch

## Key Features



- 8 x 10/100/1000Mbps Auto-sensing network ports
- M12 connector with IP67 rugged housing
- Support Auto MDI/MDIX
- Flow control mode: full duplex with IEEE 802.3x standard,
- half-duplex with Back pressure standard
- IEEE 802.3 10Base-T and IEEE 802.3u 100Base-TX compliant
- A store-and-forward switching mechanism
- Redundant input power 12VDC-52VDC
- Operating environment temperature:-40 ° ~75 ° c
- Support IEEE802.3az EEE (Energy Efficient Ethernet) Management, optimize power consumption
- Support ITU-802.3/Y1344 ERPS ring protocol.
- Support SNMPv1, v2Web management, support user login password protection and other device configuration methods
- Support 9k Jumbo frame, MAC restriction
- Support VLAN: support port VLAN and 802.1Q Tag
- Support QoS priority, DSCP remapping, Priority and Queue Mapping, Port Priority, Q queue weight
- Support IGMP port bandwidth control, broadcast storm suppression
- Support Port Aggregation, Port Mirroring, Port isolation, Bandwidth control
- Support MIB library opening to meet the requirements of operation and maintenance
- Support WEB, CLI, Telnet, Windows utility and SNMP management methods
- Reset: Support restart and restore default configuration

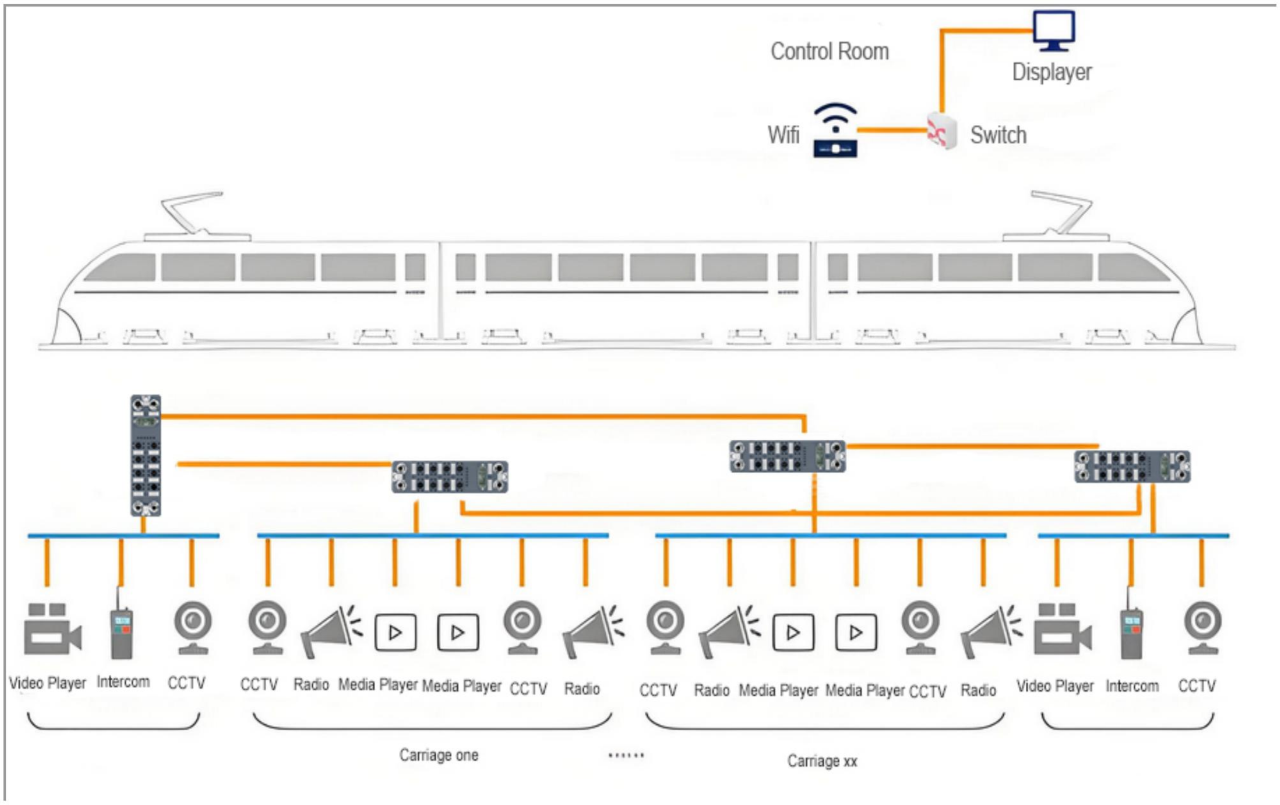
## Introduction

IM-WS080WGM series is the 10/100/1000 Mbps waterproof M12 switch, operating temperature -40 ℃ to + 75 ℃, support web management, meet IP67 protection degree and EMC industrial grade requirements,pass through dangerous environmental certification and comply with FCC and CE standards. The reliable waterproof industrial design could ensure continuous and stable operation of the automation system.

## Specification

| | |
|---|---|
| Product Name | 10/100/1000Mbps Managed Industrial Waterproof Switch (8TP) |
| Model No. | IM-WS080WGM |
| Port | 8 x 10/100/1000M M12 network ports , M12(Female), 8-Pin A-Code, Automatic Flow Control, Full/half Duplex Mode, MDI/MDI-X Autotunning |
| Standard | IEEE 802.3, IEEE 802.3u, IEEE 802.3x Flow Control, IEEE 802.1Q VLAN Tagging, IEEE 802.1p CoS, IEEE 802.1X Authentication, IEEE 802.3ad Link Aggregation Protocol: IGMPv1/v2, SNMPv1/v2 DHCP ClientTFTP, HTTP, HTTPS, Telnet, Syslog SSH, SNMP Inform, DDM, Ping/tracert detection, MIB library: MIB-II, Ethernet-Like MIB, |
| Managed | ☆ Jumbo frame processing: 9k<br>☆ Report buffer: 64K<br>☆ Broadcast storm suppression: support broadcast, multicast, unknown unicast suppression<br>☆ Flow control: Adopt IEEE802.3x negotiation flow control, CAR function, speed limit step size is 1Kb<br>☆ ITU-802.3/Y1344 ERPS<br>☆ Multicast protocol: IGMP Snooping<br>☆ Port management: support port isolation and port aggregation<br>☆ DHCP management: support DHCP Snooping, option 82<br>☆ QoS mechanism: 802.1p; support port default priority marking, each port has at least 4 queues with different priorities<br>☆ Security: login access authentication, login password modification, MAC address filtering, support dynamic or static MAC address learning / support ARP learning function off and on, ARP message speed limit / support IP+MAC+ port manual and automatic scanning binding Set IEEE 802.1x (Port based, MAC based), can transparently transmit 802.1x data packets/port loop detection |
| Switching Features | Exchange capacity: 20Gbps Packet forwarding rate: 14.8Mpps<br>MAC address table: 4K Swap delay: <5 μ s<br>Transmission method: store and forward |
| Power supply | Input voltage：DC12-52V<br>Reverse connection: support<br>Overload protection: support<br>Redundant protection: support |
| Environment | Working Temp：-40°～ 75°C ; Storage Temp：-40°～ 85°C;<br>Working humidity：5%～95%, non-condensing |
| Industry Standards | EMI：FCC Part 15 Subpart B Class A，EN 55022 Class A<br>EMS：EN 61000-4-2 (ESD) Level 3，EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 3，EN 61000-4-5 (Surge) Level 3, EN 61000-4-6 (CS) Level 3，EN 61000-4-8<br>Traffic Control：NEMA-TS2 Vibration：IEC 60068-2-6<br>Freefall：IEC 60068-2-32 Shock：IEC 60068-2-27 Rail Traffic：EN 50121-4 |
| Mechanical information | Corrugated metal shell; Safety class：IP67<br>Dimension：125 x 60x 25mm. Weight: 0.5kg |
| Warranty | 3years |

## Application


Control Room
Displayer
Wifi
Switch
Video Player
Intercom
CCTV
CCTV
Radio
Media Player
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## Accessories

| **Power Cable and Connector** |
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| M12 L-code 4pin, 10A max, female connector with cable, Length:1m |
| M12 L-code 4pin, 10A max, dual connectors female-male connector with cable, Length:1m |
| M12 L-code 4pin, 10A max, female connector, unshielded TPU casing |
| M12 L-code 4pin, 10A max, male connector, unshielded TPU casing |
| **Signal Cable and Connector** |
| M12 A-code 8pin, male connector with cable, Length:1m |
| M12 A-code 8pin, male connector with cable, Length:1m |
| M12 B-code 8pin, male connector with cable, Length:1m |
| M12 B-code 8pin, male connector with cable, Length:1m |